

TECHNICAL DATA SHEET

NOMATEC® XLPa 50N

DESCRIPTION

NOMATEC® XLPa is a cross-linked polyethylene foam with properties that make it particularly resilient and suitable for many specific purposes. Due to its closed cell structure, it absorbs almost no water and can be used in cold, hot, moist, wet, or dry environments.

NOMATEC® XLPa has a high mechanical strength and is available in special grades, including Soft (M), Extra Soft (S), Fire Resistant (FR), High Friction (HF), improved Lambda (L) and several others. NOMATEC® XLPa is supplied in the standard colors of white and anthracite but can be delivered in nearly all desired colors.

MARKETS AND APPLICATIONS

NOMATEC® XLPa foams can be used in many applications in different markets such as:

- Construction
- Industry
- Sport and leisure
- Packaging
- Transportation

PROCESSING

- NOMATEC® XLPa foam is easy to convert.
- The foam can be combined with other materials, including felt, vinyl, PU foam, textile and textile membranes and PE films, through lamination using hot air and flame or different types of glues and adhesives.
- Various types of embossing can be applied to improve the surface performance.
- Different shapes can be produced by vacuum and or thermoforming.
- The material can be cut and shaped using die cutting, sawing, water jet cutting, hot knife slicing, and milling machines.

AVAILABILITY

- NOMATEC® XLPa foams can be supplied in various densities, widths, thicknesses, and lengths.

WIDTH	Rolls & Sheets	Max. 2.150 mm*	
THICKNESS	Rolls & Sheets	3-15 mm*	One-layer
		16-100 mm*	Laminated in multi-layers
	Blocks	Max. 1.000 mm*	Laminated in multi-layers
LENGTH	Rolls	Max. 200 m*	



BENEFITS

NOMATEC® XLPa products are versatile and can be used in a wide range of applications since they are:

- thermal isolating
- air-, moisture- and waterproof
- resistant to most chemicals, fluids, and wear
- resistant to bacteria and fungi growth
- shock and vibration absorbent
- light weight
- durable
- diverse in appearance using different color and or embossing
- non-toxic, environment friendly

*FOR SPECIFIC TOLERANCES PLEASE REFER TO THE STANDARD TOLERANCES SHEET ON NMC-NOMAFOAM.COM/EXTRANET

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UPGRADE THE PERFORMANCE OF YOUR PRODUCTS OR SYSTEMS

Valid until 01/01/2025

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Foam	
Material Group	Cross-linked polyolefin foam
Cell Structure	Closed cells

Properties	Norm	Unit	Typical value
Density			
Nominal Density		kg/m³	50*
Tensile Strength			
Lengthwise at break	EN ISO-1798	kPa	490
Crosswise at break	EN ISO-1798	kPa	440
Tensile Elongation			
Lengthwise at break	EN ISO-1798	%	130
Crosswise at break	EN ISO-1798	%	138
Compression Stress/Strain (1st cycle)			
25 % deflection	EN ISO-3386/1; v=100mm/min	kPa	96
50 % deflection	EN ISO-3386/1; v=100mm/min	kPa	181
Thermal Stability			
Recommended working temperature	Internal	°C	-50 to +95
Water Absorption			
%vol. water absorption	DIN EN 12087 (24h - 23°C)	%vol.	≤1
Thermal Conductivity			
at 10 °C	ISO-8301	W/mK	0,044
at 40 °C	ISO-8301	W/mK	0,048
Fire Behavior			
Fire class	DIN EN 13501-1		on request
Burning speed	FMVSS 302/ISO 3795	mm/min	<100 mm for thickness ≥5 mm

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